Distributed by:

JAMECO® ELECTRONICS

www.Jameco.com ✦ 1-800-831-4242

The content and copyrights of the attached material are the property of its owner.

MEAN WELL

SWITCHING POWER SUPPLY

ISO-9001 CERTIFIED MANUFACTURER

PQ-100 SERIES

Jameco Part Number 217306 (PQ-100B)

.LOW COST, HIGH RELIABILITY .COMPACT SIZE, LIGHT WEIGHT
.105◦C OUTPUT CAPACITOR .100% FULL LOAD BURN-IN TEST
.INTERNATIONAL AC INPUT RANGE .BUILT IN EMI FILTER, LOW RIPPLE NOISE
.HIGH EFFICIENCY, LOW WORKING TEMPERATURE .POWER GOOD(OPTION)
.SOFT-START CIRCUIT, LIMITING AC SURGE CURRENT
.SHORT CIRCUIT, OVERLOAD, OVER VOLTAGE PROTECTED

MODEL / SPECIFICATION	PQ-100B				PQ-100C			
	CH1	CH2	CH3	CH4	CH1	CH2	CH3	CH41
DC OUTPUT VOLTAGE	5V	12V	-5V	-12V	5V	15V	-5V	-15V
OUTPUT V. TOLERANCE	±3%	±12%	±6%	±6%	±2%	±6%	±6%	±6%
OUTPUT RATED CURRENT	10A	3.5A	0.5A	0.5A	8A	3.5A	0.5A	0.5A
OUTPUT CURRENT RANGE	2-10A	0.5-4.5A	0-1A	0-1A	2-8A	0.5-4A	0-1A	0-1A
RIPPLE & NOISE(Vp-p)	80m	250m	80m	120m	80m	150m	80m	150m
LINE REGULATION	±1%	±5%	±1%	±1%	±1%	±3%	±1%	±1%
LOAD REGULATION	±2%	±5%	±1%	±1%	±1%	±5%	±1%	±1%
DC OUTPUT POWER	100.5W				102.5W			
EFFICIENCY	72%				74%			
DC VOLTAGE ADJ.	CH1:+10,-5%				CH1:+10,-5%			
INPUT VOLTAGE RANGE	100~264VAC 47~63Hz; 141~370VDC (90~100VAC 90% LOAD max.)							
AC CURRENT	3A/115V 1.5A/230V							
INRUSH CURRENT	COLD START 50A							
LEAKAGE CURRENT	<1mA/240VAC							
OVERLOAD PROTECTION	105%~135% TYPE:PULSING HICCUP SHUTDOWN RESET:AUTO RECOVERY							
OVER VOLTAGE PROTECTION	CH1:5.75~6.75V							
OVER TEMP. PROTECTION	----------							
TEMP. COEFFICIENT	±0.03% / ◦C (0~50◦C)							
SETUP, RISE, HOLD UP TIME	1.2s, 50ms, 20ms							
POWER GOOD	/font>1ms							
VIBRATION	10~500Hz, 2G 10min./1cycle, PERIOD FOR 60min. EACH AXES							
WITHSTAND VOLTAGE	I/P-O/P:3KVAC I/P-FG:1.5KVAC O/P-FG:0.5KVAC							
ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:500VDC / 100M Ohms							
WORKING TEMP., HUMIDITY	-10◦C~+50◦C, 60◦C WITH COOLING FAN (REFER TO OUTPUT DERATING CURVE), 20%~90% RH							
STORAGE TEMP., HUMIDITY	-20◦C~+85◦C, 10%~95% RH							
DIMENSION	7"*4.25"*1.88" (177.8*107.95*47.75mm)							
WEIGHT	0.5Kgs							
SAFETY STANDARDS	UL1950, TUV EN60950 APPROVED							
EMC STANDARDS	CISPR22 (EN55022) CLASS B VERIFICATION							

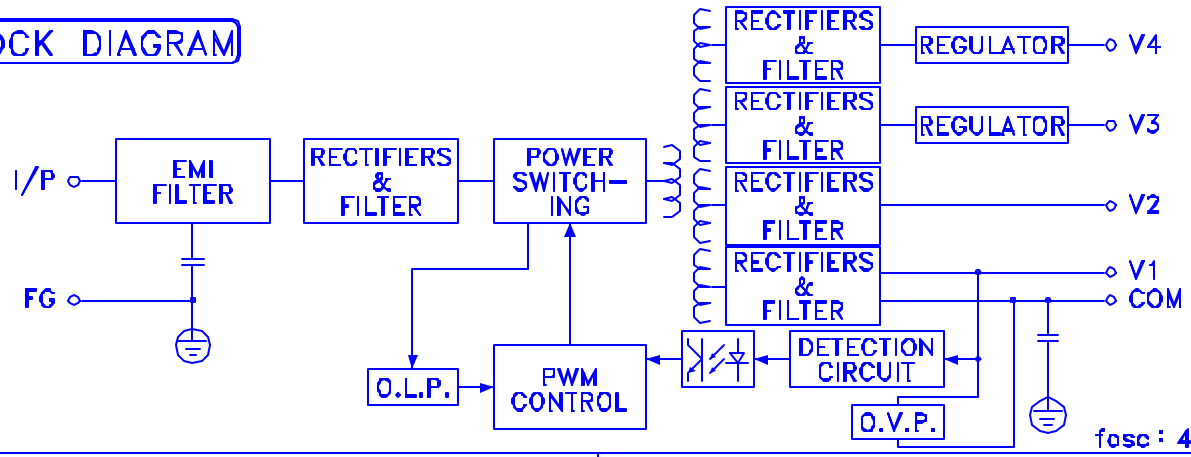
NOTE :
1.ALL PARAMETERS ARE SPECIFIED AT 230VAC INPUT, RATED LOAD, 25◦C 70% RH. AMBIENT.
2.TOLERANCE GINCLUDE SET UP TOLERANCE, LINE REGULATION, LOAD REGULATION.
3.RIPPLE & NOISE ARE MEASURED AT 20MHz BY USING A 12" TWISTED PAIR TERMINATED WITH A 0.1uF & 47uF CAPACITOR.
4.LINE REGULATION IS MEASURED FROM LOW LINE TO HIGH LINE AT RATED LOAD.
5.LOAD REGULATION IS MEASURED FROM 20% TO 100% RATED LOAD, AND OTHER OUTPUT AT 60% RATED LOAD.
6.EACH OUTPUT PROVIDE UP TO MAXIMUM CURRENT, BUT TOTAL LOAD CAN NOT EXCEED MAX. OUTPUT POWER.
7.C2,3,11 MUST BE REMOVED.

2001-06-08

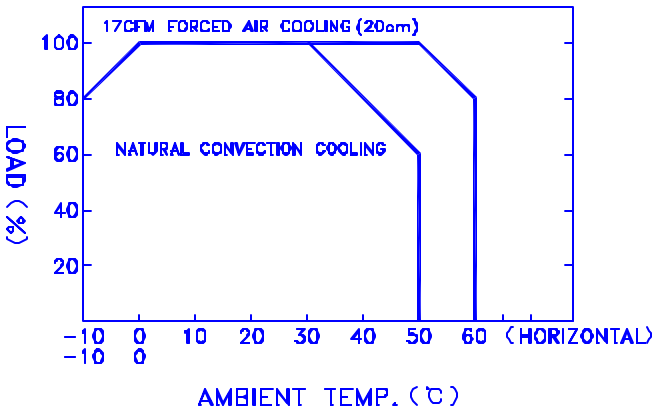
NEXT (MECHANICAL INFO)

PQ-100 SERIES

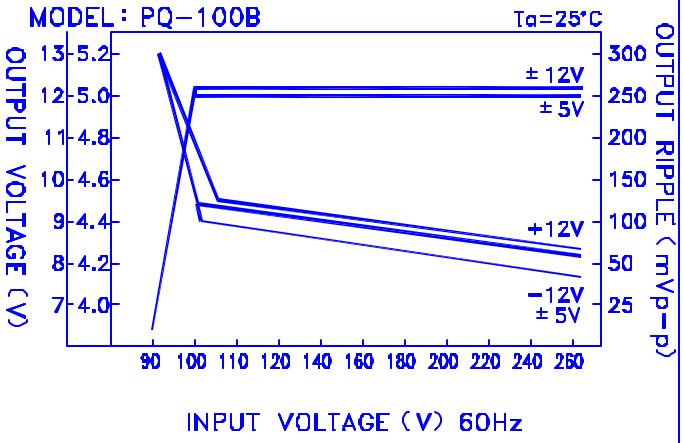
BLOCK DIAGRAM



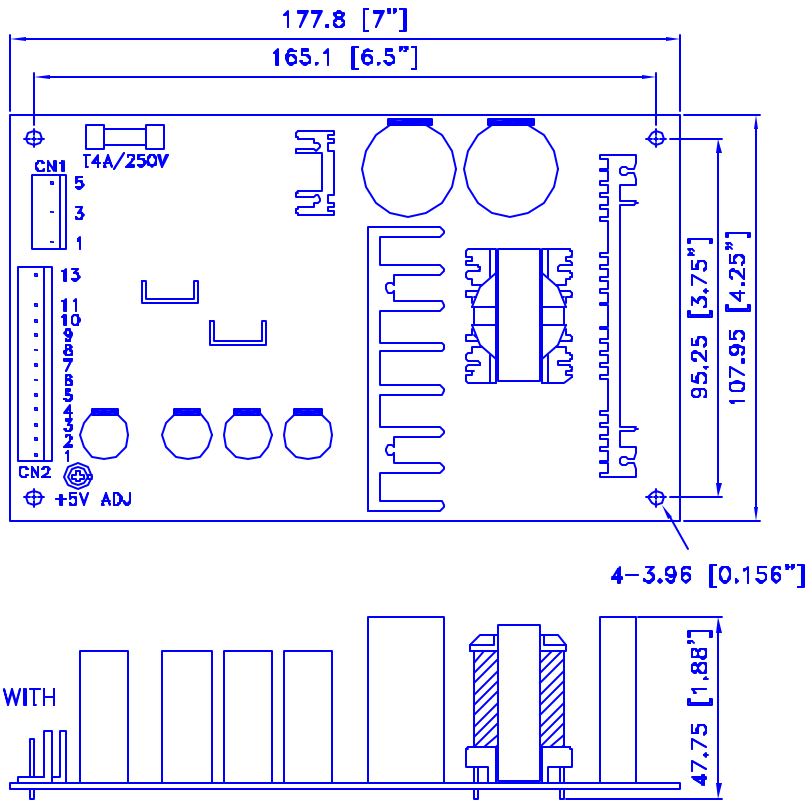
OUTPUT DERATING



OUTPUT DERATING VS INPUT VOLTAGE



DIMENSION (mm)



- TERMINAL PIN NO. ASSIGNMENT
  - CN1 : MOLEX 5273-05
    - PIN 3,5 : AC INPUT
    - PIN 1 : FG ⏚
  - CN2 : MOLEX 5273-12
    - PIN 1,2,3 : DC OUTPUT V1
    - PIN 4,5,6,7: DC OUTPUT COM
    - PIN 8,9 : DC OUTPUT V2
    - PIN 10 : POWER GOOD OPTION
    - PIN 11 : DC OUTPUT V3
    - PIN 13 : DC OUTPUT V4

MODEL / PIN NO.	PQ-100B	PQ-100C	PQ-100D	PQ-100E
1,2,3	+5V	+5V	+5V	+5V
8,9	+12V	+15V	+12V	+12V
11	-5V	-5V	+24V	+15V
13	-12V	-15V	-12V	+24V

- MATING CONNECTORS
  - CN1,2 MATING CONNECTOR TYPE MOLEX 5195 SERIES OR EQUIVALENT WITH MOLEX 5194 OR EQUIVALENT CRIMP TERMINALS.